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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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IBM CORPORATION PO BOX 12195 DEPT YXSA, BLDG 002 RESEARCH TRIANGLE PARK, NC 27709			EXAMINER GOODCHILD, WILLIAM J	
			ART UNIT 2145	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/802,179	Applicant(s) KAJITA, TSUNEHIRO	
	Examiner William J. Goodchild	Art Unit 2145	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>03/17/2004</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-13, 15-18 and 28-30 rejected under 35 U.S.C. 102(e) as being anticipated by Powderly, (US Patent No. 6,732,067).

In reference to claim 1, Powderly teaches a method / system comprising: said first communication-enabled information processing device has at least a storage section storing a driver program for a user input/output device, and a storage section storing a program for emulating said second communication-enabled information processing device through the user interface, said user input/output device being connected to said first communication-enabled information processing device [column 3, lines 21-42 and figure 1]; and said second communication-enabled information processing device has a BIOS (Basic Input Output System) storage section which stores at least a check program for checking the operation of a communication control section, an address acquisition program for acquiring a second address number of said second communication-enabled information processing device in the communication network,

and a program for establishing a link with said first communication-enabled information processing device, and an OS (Operating System) storage section which stores at least a program for inheriting said second address number and changing said second address number if needed, and a program for inheriting the link with said first communication-enabled information processing device [column 3, lines 21-42 and figure 1].

In reference to claim 2, Powderly teaches the method / system of claim 1 wherein: said storage section storing the emulation program has a link request reply program by which said first communication-enabled information processing device establishes a link and notifies said second communication-enabled information processing device when said first communication-enabled information processing device receives a link request message sent from said second communication-enabled information processing device during BIOS operation [column 10, lines 44-67].

In reference to claim 3, Powderly teaches the method / system of claim 1 wherein: said storage section storing the emulation program has an offer program by which said first communication-enabled information processing device sends a link offering message to said second communication-enabled information processing device when said first communication-enabled information processing device receives a message sent from said second communication-enabled information processing device during BIOS operation for locating a first communication-enabled information processing device as a link destination [column 10, lines 27-57].

In reference to claim 4, Powderly teaches the method / system of claim 1 wherein: said storage section storing the emulation program has an autopause and autoseup program having the functions of automatically pausing a POST output message and automatically entering a setup screen when said second communication-enabled information processing device is executing a POST (Power-On Self Test) during BIOS operation [column 10, lines 27-48].

In reference to claim 5, Powderly teaches the method / system of claim 1 wherein: said storage section storing the emulation program has a screen refresh request program by which said first communication-enabled information processing device requests said second communication-enabled information processing device to transmit data corresponding to one frame for refreshment of said display screen of said first communication- enabled information processing device [column 6, lines 24-36].

In reference to claim 6, Powderly teaches the method / system of claim 1 wherein: said storage section storing the emulation program has a program by which said first communication- enabled information processing device notifies said second communication-enabled information processing device of a changed first address number and reestablishes a link at a request from said second communication-enabled information processing device when said first communication-enabled information processing device receives from said second communication-enabled information

processing device a request message for changing the current first address number of said first communication-enabled information processing device [column 12, line 57 – column 13, line 14].

In reference to claim 7, Powderly teaches the method / system of claim 1 wherein: said BIOS storage section has a program for transmitting presentation data in a text format from said second communication-enabled information processing device to said first communication-enabled information processing device [column 7, lines 1-25 and column 1, lines 44-58].

In reference to claim 8, Powderly teaches the method / system of claim 1 wherein: said BIOS storage section has a program for transmitting presentation data in a graphic format from said second communication-enabled information processing device to said first communication-enabled information processing device [column 7, lines 1-25 and column 1, lines 44-58].

In reference to claim 9, Powderly teaches the method / system of claim 1 wherein: said BIOS storage section has a program for checking at least existence of said second address number stored in nonvolatile storage [column 8, lines 42-54].

In reference to claim 10, Powderly teaches the method / system of claim 1 wherein: in said BIOS storage section, either a program for checking the operation of the user interface is not provided or it is set in a suspended state [column 2, lines 26-41].

In reference to claim 11, Powderly teaches a method / system comprising: initiating power and starting a POST (Power On Self Test) [column 9, lines 11-16]; checking the operation of a communication control section [column 9, lines 11-16]; acquiring a second address number of said communication-enabled information processing device in a communication network [column 9, lines 11-24]; establishing a link between a first and said second communication-enabled information processing devices [column 10, 27-43]; sending presentation data to said first communication-enabled information processing device [column 10, lines 27-43]; executing contents received from said first communication-enabled information processing device [column 10, lines 27-43]; terminating the POST [column 9, 11-16]; and booting an OS (Operating System) [column 7, lines 51-64].

In reference to claim 12, Powderly teaches the method / system of claim 11 wherein: inheriting the link established in said BIOS operation stage and the second address number [column 16, lines 27-43]; transmitting presentation data to said first communication-enabled information processing device [column 7, lines 1-25]; and executing contents received from said first communication-enabled information processing device [column 7, lines 1-25].

In reference to claim 13, Powderly teaches the method / system of claim 11 wherein: acquiring a second address number includes checking whether said second address number (3) is stored as a fixed value in a nonvolatile storage section [column 8, lines 42-54].

In reference to claim 15, Powderly teaches the method / system of claim 11 wherein: acquiring a second address number includes using a default second address number if said second address number cannot be obtained by the DHCP [column 8, lines 42-54].

In reference to claim 16, Powderly teaches the method / system of claim 11 wherein: establishing a link includes checking whether a first address number of the first communication-enabled information processing device is stored in the nonvolatile storage section [column 12, line 57 – column 13, line 14].

In reference to claim 17, Powderly teaches the method / system of claim 16 wherein: establishing a link includes requesting said first communication-enabled information processing device to establish a link when said first address number is stored in the nonvolatile storage section [column 8, lines 42-54].

In reference to claim 18, Powderly teaches the method / system of claim 17 wherein: establishing a link includes storing a first address number in the nonvolatile storage

section if a reply including said first address number is received in a predetermined time period from said first communication-enabled information processing device in response to the link establishment request [column 10, lines 27-43].

In reference to claim 28, Powderly teaches the method / system of claim 11 wherein: in said first communication-enabled information processing device, transmitting a request to said second communication-enabled information processing device for transmission of data corresponding to one frame for refreshment of the display screen of said first communication-enabled information processing device [column 6, lines 24-36]; and in said second communication-enabled information processing device, transmitting presentation data corresponding to one frame to said first communication-enabled information processing device when the request for transmission of data corresponding to one frame is received [column 6, lines 24-36].

In reference to claim 29, Powderly teaches the method / system of claim 11 wherein: in said second communication-enabled information processing device, transmitting a request to said first communication-enabled information processing device for changing the first address number used in said first communication-enabled information processing device [column 12, line 57 – column 13, line 14]; in said first communication-enabled information processing device, transmitting a changed first address number when the request for changing said first address number is received [column 12, line 57 – column 13, line 14]; in said second communication-enabled information processing

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device, requesting said first communication-enabled information processing device to establish a link between said first and second communication-enabled information processing devices [column 12, line 57 – column 13, line 14]; and in said first communication-enabled information processing device, transmitting a notice of establishment of a link to said second communication-enabled information processing device when the request for establishment of a link is received [column 18, lines 42-54].

In reference to claim 30, Powderly teaches a method / system comprising: a communication enabled information processing device equipped with a user interface [column 3, lines 21-42]; I/O devices operatively coupled to said user interface [column 3, lines 21-42]; and a storage section, in said user equipped processing device, storing a driver program for a user input/output device, and a storage section storing a program for emulating said second communication-enabled information processing device through the user interface [column 3, lines 21-42].

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Powderly, (US Patent No. 6,732,067) as applied to claim 13 above, and further in view of Andrews et al, (US Patent Number 5,835,723), (hereinafter Andrews).

Regarding claim 14, Powderly does not specifically disclose acquiring said second address number by a DHCP (Dynamic Host Configuration Protocol) if said second address number is not stored as a fixed value in the nonvolatile storage section. However, Andrews discloses using the DHCP protocol for dynamic binding [Andrews, column 1, lines 31-38]. It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate DHCP to obtain an IP address in order to reduce system administrator workload and allow devices to be added to the network without manual configurations.

5. Claims 19-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Powderly, (US Patent No. 6,732,067) as applied to claims 16-17 above, and further in view of Zintal et al, (US Patent Number 6,779,004), (hereinafter Zintal).

Regarding claim 19, Powderly does not specifically disclose establishing a link includes transmitting a message for finding said first communication-enabled information processing device to the communication network by multicasting if no reply including the first address number is received in the predetermined time period from said first communication-enabled information processing device in response to the link establishment request. However, Zintal discloses sending out a multicast packet [Zintal,

column 49, lines 39-43]. It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate multicasting to identify the machine on the network in order to let other machines know that your machine is there.

Regarding claim 20, Powderly-Zintal further disclose establishing a link includes transmitting a message for finding said first communication-enabled information processing device to the communication network by multicasting if said first address number is not stored in the nonvolatile storage section [Zintal, column 49, lines 39-43].

Regarding claim 21, Powderly-Zintal further disclose checking whether or not there are a plurality of offers when an offer from said first communication-enabled information processing device is received in the predetermined time period as a result of multicasting the message for finding said first communication-enabled information processing device to the communication network [Zintal, column 49, lines 49-57].

Regarding claim 22, Powderly-Zintal further disclose selecting said first communication-enabled information processing device that transmitted the offer first received in a case where there are a plurality of offers as a result of multicasting the message for finding said first communication-enabled information processing device to the communication network [Zintal, column 49, lines 49-57].

Regarding claim 23, Powderly-Zintal further disclose requesting said first communication-enabled information processing device that transmitted the offer first received to establish the link [Zintal, column 49, lines 49-57].

Regarding claim 24, Powderly-Zintal further disclose requesting said first communication-enabled information processing device that transmitted the received offer in a case where there are not a plurality of offers as a result of multicasting the message for finding said first communication-enabled information processing device to the communication network [Zintal, column 49, lines 49-57].

Regarding claim 25, Powderly further disclose storing the first address number in the nonvolatile storage section if a reply including said first address number is received in the predetermined time period from said first communication-enabled information processing device in response to the link establishment request [Powderly, column 12, line 57 – column 13, line 14].

Regarding claim 26, Powderly further disclose checking whether or not said second address number is a fixed value stored in the nonvolatile storage section if no reply including the first address number is received in the predetermined time period from said first communication-enabled information processing device in response to the link establishment request [Powderly, column 12, line 57 – column 13, line 14].

Regarding claim 27, Powderly further disclose acquiring a second address number is repeated if in said establishing a link, said second address number is a fixed value stored in the nonvolatile storage section [Powderly, column 12, line 57 – column 13, line 14].

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William J. Goodchild whose telephone number is (571) 270-1589. The examiner can normally be reached on Monday - Friday / 9:00 AM - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Cardone can be reached on (571) 272-3933. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

WJG
11/27/2007

/Jason D Cardone/
Supervisory Patent Examiner,
Art Unit 2145